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Fig. 1(1)

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			- Y C - G -	- A P K R K X W V -	- - - - -	- Q Majority
101	Q L V P K S D A Y Y C T G D V T A W T K C M V K T Q T P N R K E W V T P K E F R E I S Y L K K L K V K K Q D R I F P P E	310	320	330	340	350
88	K V G - - K A H V V C F G N					360
9						humanPARP1
2						humanPARP2
						humanPARP3
						Q murinePARP
						Q murinePARP
						Majority
161	T S A S V A A T P P P S T A P A A V N S I S A S A D K P L S H H K I L T L G K L S R N K D E V K A M I E K L G G K L T	170	180	190	200	210
100						humanPARP1
18	T E G P					humanPARP2
11	T E G S					humanPARP3
						murinePARP
						Majority
421	G T A N K A S L C I S T K E V E K H N N K M E E V K E A N I R V V S E D F L Q D Y S A S T K S L Q E L F L A H I L S P	430	440	450	460	470
100						humanPARP1
22	E K K K G R Q A O R E E D P P R S T A E A L - - - - -					humanPARP2
15	- K K Q R Q O O T E E E D S F R S T A E A L - - - - -					humanPARP3
						murinePARP
						Majority
481	W G A E V K A E P V E V V A P R G K S G A A L S K S K G Q V K E E G I N K S E K R M X L T L K G G A N V D P D S G L E	490	500	510	520	530
100						humanPARP1
44	[K A] [P A] [E K R I I I R V D P T C P [L S] S H P G T [O V Y E D - - - - -					humanPARP2
35	- R A A P A D H R V I R V D P S C P F S R N P G I Q H E D - - - - -					humanPARP3
						murinePARP
						Majority
541	H S A II V L E K G G K V F S A T L G L V D I V K Q T N S Y Y K L Q U L E D D K E N R Y W I F R S W O R V G T V I O S N K	550	560	570	580	590
100	- D V Y D V M L N O T N L U O P N N N K Y Y L I Q L L E D D A Q R N P S V W M R W O R V G K M - G Q H S					humanPARP1
73	- Y N C T I N Q T N I E N N N N K P Y I Q L L Q D S N - R P F T C W N R W G R V G E - V G Q S K					humanPARP2
64	- Y D C T L N Q T N I X H H N N K F Y I I Q L L E D D X - R F F X C W N R W G R V G E - V G Q S K					humanPARP3
						murinePARP
						Majority

Fig. 1(2)

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L N H F T X - L E D A K E D F X K K F X E R T K N N W E E R D X F U V X X P G K Y T L L E V U Y - x x x E D E U V V K - Majority	
601	L E Q H P S K - E D A I E H F M K L Y E E K T G N A W H S K N - F T K Y P K K P Y P L E I D Y G - - Q D E E A V K K - humanPARP1
149	L V A C S G H L N K A K E I P O K F L D K T K N N W E D R E K F E K V P Q K Y D M Q N D Y T N T Q D E E T K K - humanPARP2
119	I N H P T R - L E D A K K D P E K K F R E K T K N N W A E D H P V S H P Q K Y T L I E V O - - A E D E A Q E A V V K - humanPARP3
109	H N H F T C - L E D A K K D P K K F W E K T K N K W E E R D R E F V A Q P N K Y T L I E V O - - G E A E S Q E A V V K - murinePARP
- S L X V D X G P V S T V X X K R V Q P C S L D P A T O X L I T N I F S V E M F K N A M X L M X L D V K R M P L G K L S K Majority	
610	620
640	650
660	
655	
209	- - I T V N P G T K S K L P K P V Q - - - - - D L I X M I P D V E S H K K A N V E Y E I D L Q K M P L G K L S K humanPARP1
175	- - V D R G P V R T V T K R V Q P C S L D P A T O K L I T N I F S K E M P K N T M D V K K M P L G K L S K humanPARP2
166	L S P Q V D S G P V R T V V K - - P C S L D P A T Q N L I T N I F S K E M P K N A M T L M N L D V K K N P L G K L T K murinePARP
710	
720	
730	
740	750
760	770
780	
764	
260	R O I Q A A Y S I L U S E V Q Q A V S Q O S S D S Q I L D - L S N R F Y T L I P M D P G M K K P P L L N N A D S V Q A K V humanPARP1
221	A Q I K A Q Y Q S L K K I E D C I R A G Q H G R A C N E - A C H E F Y T R I P H D P G L R T P P L I R T Q K E L S E K I humanPARP2
223	Q O I A R G F E A L E A L E E A L K G P T D G Q Q S L E E L S S H P Y T V I P H N P O H S Q P P P I N S P E L L Q A K K humanPARP3
790	
800	810
820	830
840	
850	
860	870
880	890
900	

Fig. 1(3)

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RIAPHEAP - SGGRUVGKQIYPASENSKSAGYVXTSSXCOGHXXVOLNHLLGEVALGXHELXXA Majority		humanPARP	
910	920	930	940
R I A P P E A P V T G Y H F G K G I Y P A D H V S K S A N Y C H T S Q - -	G D P I O L L I L G E V A L Q N M Y E U K H A	humanPARP	humanPARP
878 R I A P P E A P I T O Y H F G K G I Y P A D H S S K S A N Y C P A S R - -	L K N T O L L L S E V A L Q O C N E U L E A	humanPARP	humanPARP
441 R I H P H - - -	V I G H K C O A H V Q Y M P L O E V A L Q R E H H I N T D	humanPARP	humanPARP
407 R I H P H - - -	V T T H C O G H Q V G Y M F L G E V A L Q K E H H I T D	murinePARP	murinePARP
400 R I H P H - - -	/		
NPSULKSLPPGKQDSVIGLGLGKTEPDPAQDIELELDGQGVVPLQOPPVXCFXSXPSPSUY S Majority		humanPARP	
970	980	990	1000
S H I S K - L P P K G K H S V K G L G K T T P D P S A N I S L D - -	- Q V D V P L Q T O I S S O V - -	- N D T S U L Y N	humanPARP
916 N P K A E G L L Q G K H I S T K Q L G K H A P S S A H P V T L N - -	- Q S T V P L G P A S D T G I L N P D G Y T L N Y N	humanPARP	humanPARP
489 N P S L K S P P P Q P D S V I A R G H I T E P D P T Q D T E L E L D G Q Q V V P C P E F S S S S T P S Q - -	Q V V P O G Q Q V V P C P E F S S S S T P S Q - -	humanPARP	humanPARP
461 N P S L K S P P P Q P D S V I A R G Q T E P D P A Q D I E L E L D G Q P V Q C P S F K S S S P S O - -	P O G P P V Q C P S F K S S S P S O - -	murinePARP	murinePARP
456 D P S L K S P P P Q P D S V I A R G Q T E P D P A Q D I E L E L D G Q P V Q C P S F K S S S P S O - -			
E Y L V Y X E S Q V R R Y L L E V H P N P - X X L W -		humanPARP	
1030	1040		
E Y I V Y D I A Q V N L K Y L L K L K P N F K T S L W .			
545 E Y I V Y N P N O V R H R Y L L K V Q P N P - L Q L W .			
521 E Y L I Y Q E S O C R L R Y L L E V H L .			
514 E Y L I Y K E S O C R L R Y L L E I H - - - - -			

Fig. 1(4)

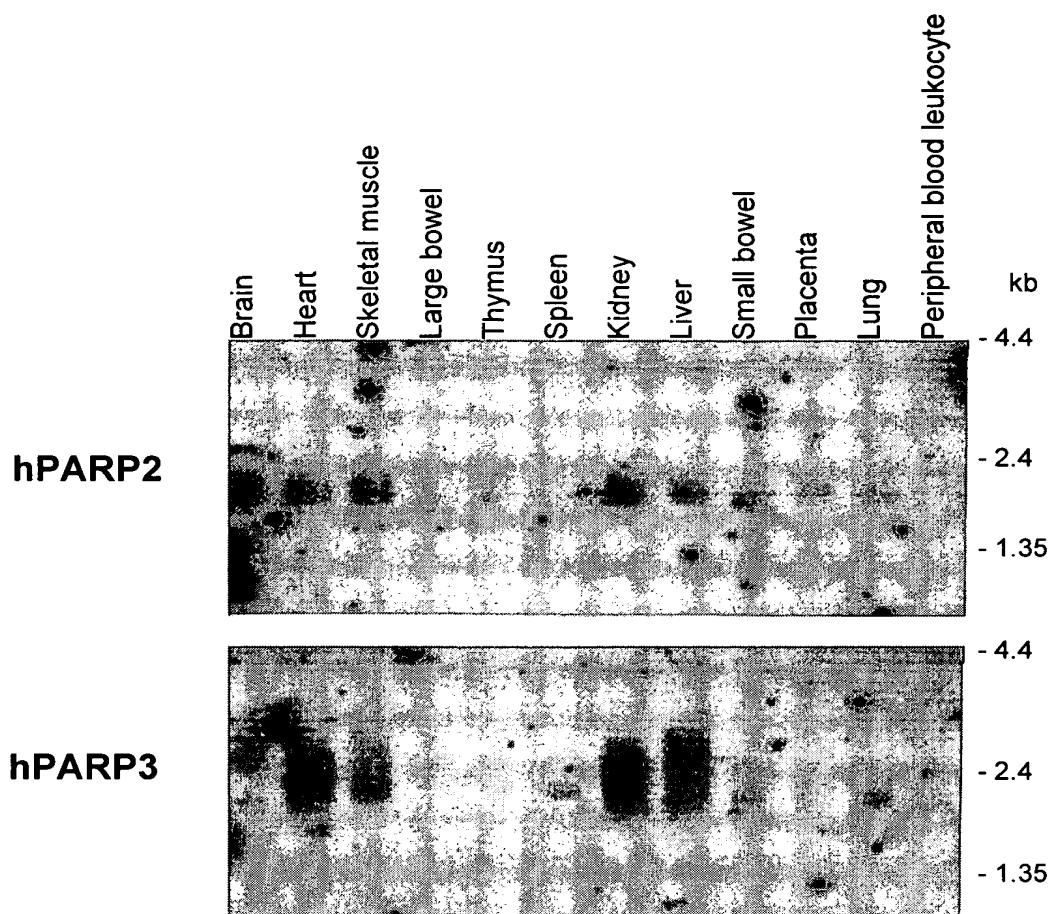


Fig. 2

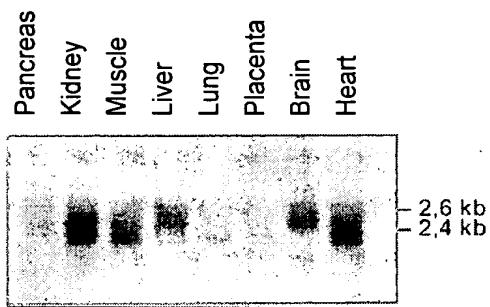
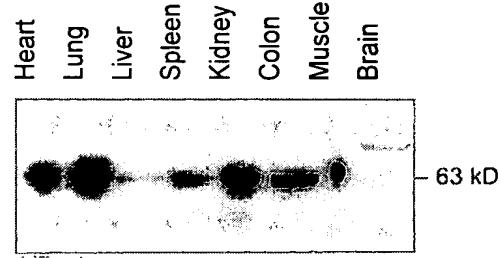
Northern Blot Analysis
Human PARP3 Tissue DistributionWestern Blot Analysis
PARP3 Tissue Distribution

Fig. 3

Fig. 4

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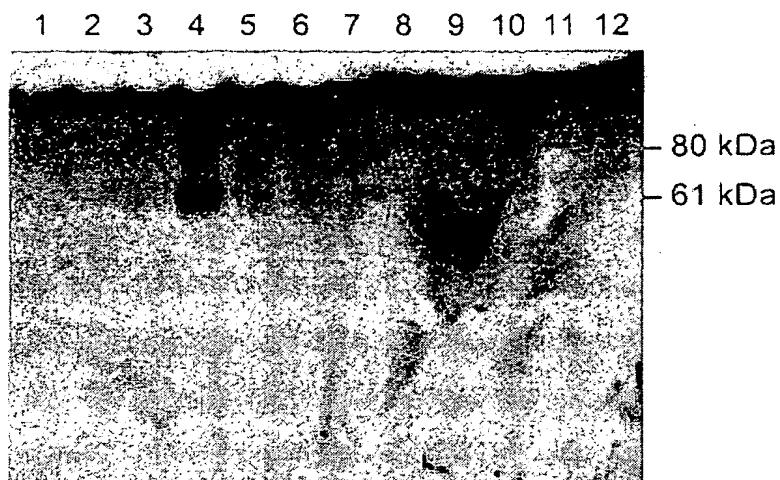
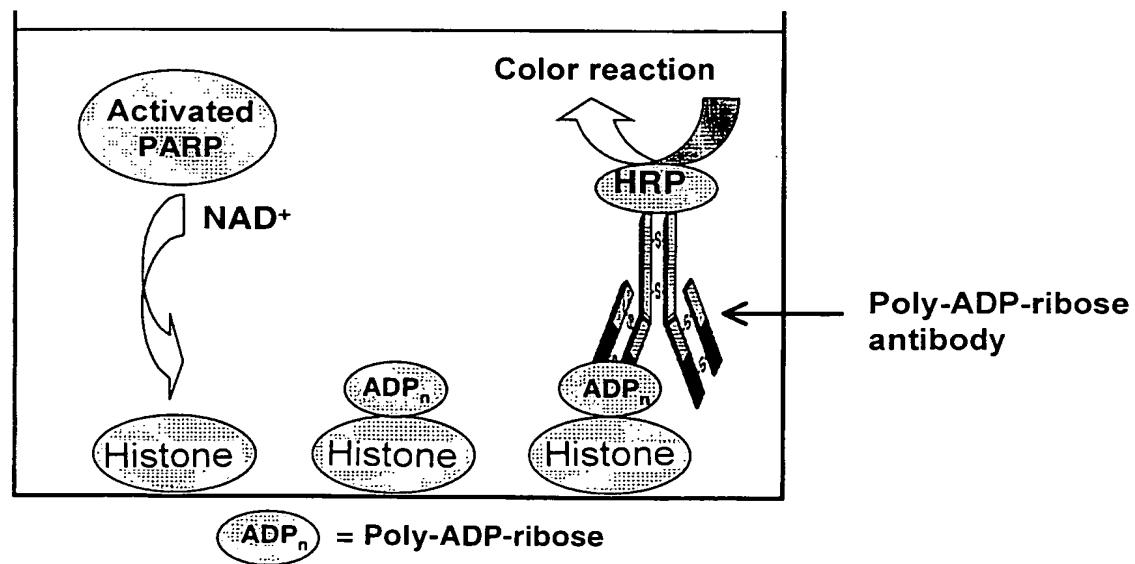


Fig. 5



HRP = Horseradish-Peroxidase

Fig. 6

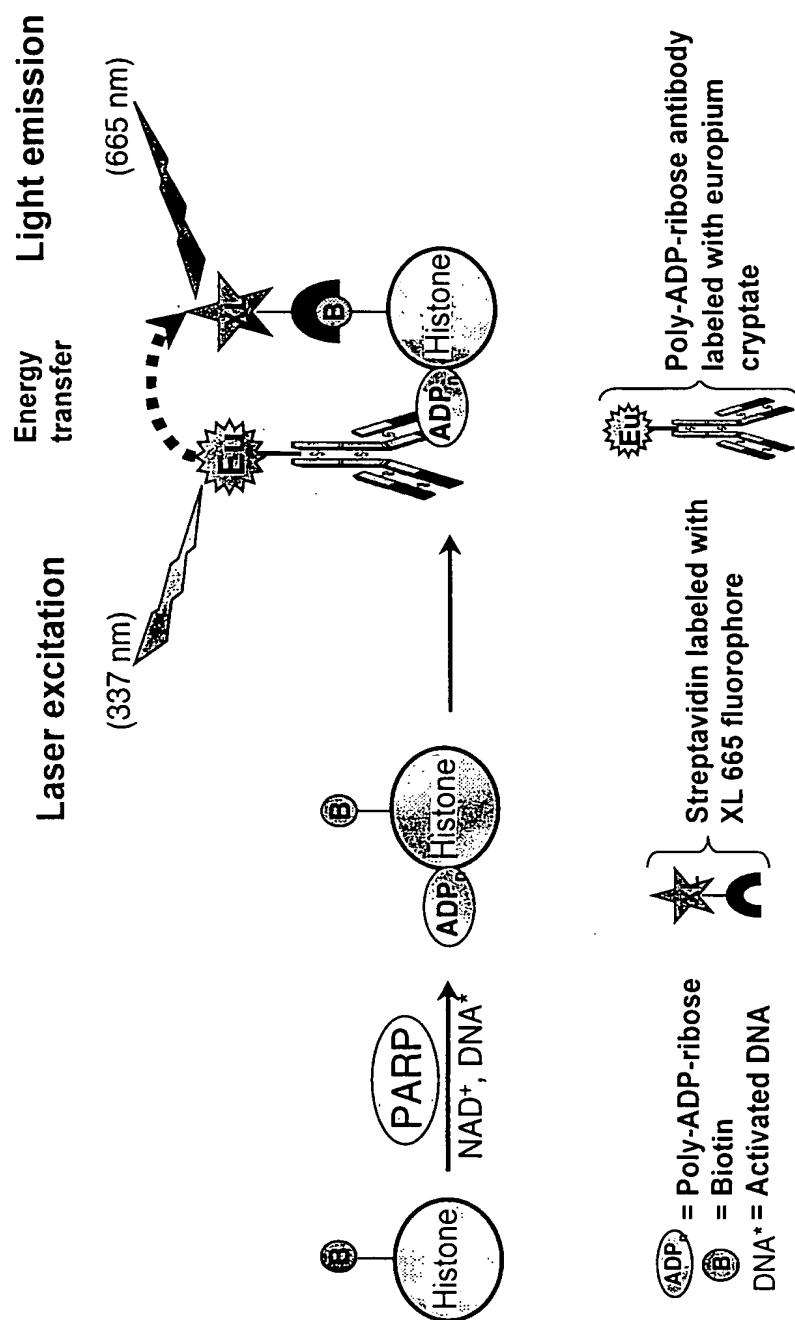


Fig. 7